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IP FM 30 (11-68) - OBSOLETE PREVIOUS EDITIONS

Approved For Release 2003/01/28 CIA-RDP78B04770A002000020012-6

TSSG/ESD/TEB-18/69 3 September 1969

MEMORANDUM FOR: Chief, Research & Engineering Division, TSSG	
ATTENTION :	25X1
THROUGH: Chief, TEB/ESD 7. Chief, ESD/TSSG / TM/450/169	
SUBJECT: Memorandum Test Report on Advanced 918 Light Table	25X1
1. Reworked (Mod. 1) table was received from manufacturer on 20 August. Acceptance test and evaluation was conducted using new specifications given to Ch/WCPO by the contract monitor dated 11 July 1969 as a test guide.	
2. Contractor has complied satisfactorily with correction requirements (a), (b), (c) and (d). Two handwheels now exist outboard in place of the former three handwheels.	
3. The squeal (item (e)) in the left motor has not been eliminated. This noise is extremely bothersome. TEB considers this condition unacceptable.	
4. The table continues to have electrical leakage believed to be caused by induced voltages. The table metal surface was shorted to ground through a 100 ohm resistor (near short circuit) and the voltage drop was measured across the resistor. The current	
was calculated as approximately 0.5 ma the project monitor, stated that the contractor has informed him that the leakage is caused by induced transformer voltage and the current level is not dangerous. Considering the 0.5 ma measurement, the	25X1
limits for safety stated in the Design Guide (2.5 peak milliamperes) and the contractor's statement; the table is presently considered electrically safe for operation.	25X1
5. The illumination system now produces 2200 foot lamberts in the center, a minimum of 1840 foot lamberts in the innormost	

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 $7\frac{1}{2}$ by 16 inch area and also a minimum of 1840 foot lamberts along

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the edge. This gives a maximum brightness gradient of 16.5% which is close enough to the required 15% to be acceptable. Although the table's illumination source now meets the requirements of paragraph 1, the illuminated area is blotchy in appearance due to areas of non-uniformity which were not detectable with the light measuring sensor.

6. It is the opinion of TEB that the Advanced 918 Light Table should be rejected for the second time due to the contractors failure to correct the objectionable motor squeal. This may not be difficult to correct since it is a brush commutator type motor and the brushes probably create the noise.

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The prototype light table was received from the Contractor on 16 April 1970. The table was subnequently tested and the fellowing defeciencies were fower. (1) Illumination System - The specifications require the maximus illumination accessed 2,000 foot lamberts. The table produces a maximum of 1870 foot lamberts. The table produces a maximum of 1870 foot lamberts. The table produces a maximum of 1870 foot lamberts. The table produces a maximum of 1870 foot lamberts. Illy voltes. The illuminated surface area according to the specifications. The bable varies by 20,7% (12.7% within an area excluding a one-iron boarder). The Contractor stated that the best way to meet the uniformity specifications was to increase the distance between the light grid and the diffuser. The boarder). The Contractor consequently is an alternate approach to attempt to achieve uniformity. He manufactured a mark which would attempt to achieving uniformity. The Contractor consequently is an alternate approach to attempt to achieve uniformity. He manufactured a mark which would attempt as the minimum points. The test shows that this attempt was not a comp siccess. (2) Manual Drive System - The Manual Drive System fails to meet the specification in the area of case of operation and film tension. The prototype table is ineff ent. The mechanical efficiency of the system is approximately 20%, requiring the the operator use an excess amount of force to drive the film. Photo interpreture are used to exerting forces in a range of 1/2 to 1 pounds to drive film wherean the prototype table, they are required to use 4-7 pounds of force. The range on film tensioning system is such that at a minimum, enough force is still present create oscillations in the film movement creating slack loops and smapping the At the maximum setting as much as 20 pounds of force must be applied to the hard to work the prototype table, they are required to use 4-7 pounds of force is still present or each of the film false produced to the film false by a pair of brackets. On	SECRET	☑ CONFIDE			UNCLASSIFIED
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exceed 2,000 foot lamberts. The table produces a maximum of 1870 foot lamberts. The illumination must not vary by more than 10% between any was point within the entire illuminated surface area according to the specifications. The lable varies by 20.5% (12.7% within an area excluding a one-incomposition). The Contractor stated that the best way to meet the uniformity specifications, however, require that the height of the table be kept to a minim precluding this method of achieving uniformity. The Contractor consequently is an alternate approach to attempt to achieve uniformity. He manufactured a mask which would attenuate the intensity at the maximum points of that it would match intensity at the minimum points. The test shows that this attempt was not a comp success. (2) Manual Drive System - The Manual Drive System fails to meet the specification in the area of ease of operation and film tension. The prototype table is fareful ent. The mechanical efficiency of the system is approximately 20%, requiring the theorem use an excess amount of force to drive the film. Privot interpreter are used to exerting forces in a range of 1/2 to 1 pounds to faire film whereau the prototype table, they are required to use 4-7 pounds of force. The range of the prototype table, they are required to use 4-7 pounds of force is attill present the prototype table, they are required to use 4-7 pounds of force is film present to reate oscillisations in the film movement creating slack loops and snapping the At the maximum spotting as much as 20 pounds of force must be applied to the head to overcome the tension and to move the film. (3) Film Spool Loading and Holding Mechanism - According to the specifications of this spool shall be held in place by a pair of brackets. One fixed and one move with a positive quick release spindle on one bracket and a non-silding spindle or other. The quick-release spindle shall be the same as or equivalent to the lead of the protocomposhall be held in place by a pair of brackets on the topic late to	(1) Illumination System - The s	pecifications	require th	e maximum illu	mination wa
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tions, and he still does not meet these. However, the noise generated by the	tions, and he still does not mee	t these. How	ever the n	meet the noise	specifica-
tions, and he still does not meet these. However, the noise generated by the tab Approved For Release 2003/01/28: CIA-RDP78B04770A002000020012-6 CONFIDENTIAL (CONFIDENTIAL)	Approved For Release 2003/	01 <u>/2</u> 8 : CIA-RĎĚ	78B04770A0	02000020012-6 ²⁰	oh rue gapte

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does not appear to be objectionable with the exception the high frequency squal. (6) Dimensions and Weight - The table exceeded the specified 25X1 length by 3 1/2 inches, the width by 3 1/2 inches, and the height by 1 3/4 inches. found it impossible to meet these specifications as
was stated in earlier reports. The table weight was also considerably above the
design goal of 60 pounds. Because of the requirements of the other specifications
for stability, power film transport, manual film transport, tilt mechanism, etc.
To was determined that it was impossible to meet the design goal and the figure
weight of the table was 124 pounds.
(7) Safety Engineering - The specs require that the unit be grounded and be free
table is grounded however an electrical
potential of 45 volts exists between metal surface of the table and any ground if
the ground system is bypassed as when connecting the nower cord to a "wo-wive
power service receiptal using an adapter connector.
(8) Reliability - The table has been operated for approximately
50 hours. During this time, a low frequency knocking noise has developed in the adjustable film support assembly on the left side of the table.
The Contractor has been advised of the deficiencies of his table. He has
pectrifeducated to do the IOTIOMINA;
(1) Take out the manual by-directional drive system. Add bandwheels at the and
of the motor sharts so that the power transport can be overvided by the
switches which are now unnecessary and put blanks in the resulting holes in the shell.
DIGIT.
(2) Improve the illumination system by boosting the lamp intensity and improving the mask to provide more uniformity.
(3) Improve the film spool holding system by adding a detent to hold the film
spool bracket all the way open and by adding bumpers to prevent the brackets from
inadvertently snapping close and thereby damaging the spindles and possibly the
mo 601 •
(4) Remove the cause for the squeal in the motor.
(5) Eliminate the electrical leaks causing the potential between the shell of
the light table and ground.
(6) Remove the cause of the knocking noise developed in the adjustable film support assembly on the left side of the table.
Other deficiencies not corrected by the act correction is
Other deficiencies not corrected by the aftermentioned tasks will have to be lived with since there seems to be no acceptable solution to the problems. The
light table is being returned to to have the modifications made 25X1
During the last reporting period the manuals drowings and finel manuals
word received as well as the proportione. The prototype type moturned however
This contract is a fixed brice incentive contract which will probably made the
ceiling cost of